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LI, YAN
WEN, YONG

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<170> PatentIn Ver. 2.1

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 Glu Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile
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 Ser Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln
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 Thr Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr
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 Asn Gln Val Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp Leu
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<211> 963
<212> DNA
<213> Artificial Sequence

<220>
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<211> 160
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<220>
<223> Description of Artificial Sequence: Synthetic
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35 40 45
Glu Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile
50 55 60
Gly Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu
65 70 75 80
Ser Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln
85 90 95

Thr	Glu	Asp	Ile	Arg	Asp	Val	Leu	Arg	Ser	Phe	Met	Asp	Gly	Phe	Thr
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Thr	Leu	Lys	Glu	Asn	Ile	Met	Arg	Phe	Trp	Arg	Ser	Pro	Asn	Pro	Gly
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<210> 8

<211> 160

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

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Ser	Glu	Val	Ala	Met	His	Ser	Leu	Gly	Leu	Ala	Phe	Ile	Tyr	Asp	Gln
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Thr	Glu	Asp	Ile	Arg	Asp	Val	Leu	Arg	Ser	Phe	Met	Asp	Gly	Phe	Thr
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<210> 9

<211> 160
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<220>
 <223> Description of Artificial Sequence: Synthetic Peptide

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 Met Ser Glu Val Arg Pro Leu Ser Arg Asp Ile Leu Met Glu Thr Leu
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 Leu Tyr Glu Gln Leu Leu Glu Pro Pro Thr Met Glu Val Leu Gly Met
 20 25 30
 Asp Asp Asp Glu Glu Asp Leu Asp Pro Met Glu Asp Phe Asp Ser Leu
 35 40 45
 Glu Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile
 50 55 60
 Gly Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu
 65 70 75 80
 Ser Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln
 85 90 95
 Thr Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr
 100 105 110
 Thr Leu Lys Glu Asn Ile Met Arg Phe Trp Arg Ser Pro Asn Pro Gly
 115 120 125
 Ser Trp Val Ser Cys Glu Gln Val Leu Leu Ala Leu Leu Leu Leu Leu
 130 135 140
 Ala Leu Leu Leu Pro Leu Leu Ser Gly Gly Leu His Leu Leu Leu Lys
 145 150 155 160

<210> 10
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 10
 Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp
 1 5 10

<210> 11
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 11
Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp Val
1 5 10

<210> 12
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 12
Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp Val Ser
1 5 10 15

Leu Arg

<210> 13
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 13
Leu Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp Val Ser Leu
1 5 10 15

Arg Ala

<210> 14
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Primer

<400> 14
Glu Gln Val Leu Leu Ala Leu Leu Leu Leu Ala Leu Leu Leu Pro
1 5 10 15

Leu Leu Ser Gly Gly Leu His Leu Leu Lys
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<210> 15
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

 <400> 15
 aggacccagg tacctatggt caaaagtgcc tc 32

 <210> 16
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

 <400> 16
 ccttgccctgc tgctttccac caagtgct 28

 <210> 17
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

 <400> 17
 caggttgga aaatggtcag ccctcctgaa a 31

 <210> 18
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

 <400> 18
 cgttctgagg cgggcaatca aatgacctat 30

 <210> 19
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 19
 cccgctagcc taatttttatt ttattttttaaa ttc 33

<210> 20
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 20
 cccctcgagg tatttttgga aaatgtcctt atctag 36

<210> 21
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 21
 cgcacgcgta ggcatacagct ctctacaatt c 31

<210> 22
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 22
 agcctcgagc aggatctgag ataagaacca cg 32

<210> 23
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 23
 acggcgctcg agtccatcag ttctcatc 28

<210> 24
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 24
 ttacttaagc ttgtgtagga cgctgtc 28

<210> 25
 <211> 452
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 25
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 gccgcgctgg ctgaccgccc aacgaccccc gccattgac gtcaataatg acgtatgttc 180
 ccataagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat ttacggtaaa 240
 ctgcccactt ggcagtagat caagtgtatc atatgccaag tacgccccct attgacgtca 300
 atgacggtaa atggcccgcg tggcattatg cccagtacat gaccttatgg gactttccta 360
 cttggcagta catctacgta ttagtcatcg ctattaccat ggtgatgcgg ttttggcagt 420
 acatcaatgg gcgtggatag cggtttgact ca 452

<210> 26
 <211> 180
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 26
 agacgggtgag agcgagtcag ggattggctg gtctgcttcg ggcgggctaa aggaagggttc 60
 aagtggagct ctcctaaccg acgcgcgtct gtggagaagc ggcttggtcg ggggtgggtct 120
 cgtgggggtcc tgctgttta gtcgctttca gggttcttga gcccttcac gaccgtcacc 180

<210> 27
 <211> 231
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

<400> 27
 cggccgccag tgtgatggat atctgcagaa ttcgcccttg cgatctgtca gagcacctcg 60
 cgagcgtagc tgccctcagga agtgacgcac agccccctg ggggccgggg gcggggccag 120
 gctataaacc gccggttagg ggccgccatc ccctcagagc gtcgggatat cgggtgaagg 180
 gcgaattcca gcacactggc ggccgttact agtggatccg agctcggtac c 231

<210> 28
 <211> 1757

<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 28

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tgatttccag gtgtgggctt tttcagccat tcctaaaggc gacttgagtt cacctcactc 180
actccagcat ttgtactcct gttgtggaaa aggagctgag cacaagccaa gcccgtcca 240
ccttcacccc gcccacctc ccccgccctt ttcctgggcc agtcttaggg ccctgagtag 300
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acatatgcac ggacacacac acacacacag aggcttcccc agtactcctc tatataggaa 420
cccgtcacca tcccagacat atgcagaaga aagcccaaac cggctgtgtg agacaggaac 480
aattaacacg gtaacagatc cgataatgca gaccatcagg cctaaagaac acggagggag 540
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1620
gtgtgaatcg atagtactaa catacgctct ccatcaaaac aaaacgaaac aaaacaaact
1680
agcaaatag gctgtcccca gtgcaagtgc aggtgccaga acatttctct atcgataggt
1740
accgagctca tttaggt
1757
```

<210> 29

<211> 646

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Primer

<400> 29

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aatcaacctc tggattacaa aatttgtgaa agattgactg gtattcttaa ctatgttgct 60
ccttttacgc tatgtggata cgctgcttta atgcctttgt atcatgctat tgcttcccgt 120
atggcctttca ttttctcctc cttgtataaa tcctgggttg tgtctcttta tgaggagttg 180
tggcccgttg tcaggcaacg tggcgtggtg tgcactgtgt ttgctgacgc aacccccact 240
ggttggggca ttgccaccac ctgtcagctc ctttcgggga ctttcgcttt cccctccct 300
attgccacgg cggaactcat cgccgcctgc cttgcccgt gctggacagg ggctcggctg 360
ttgggcactg acaattccgt ggtgttgctg gggaagctga cgtcctttcc atggctgctc 420
gcctgtgttg ccacctggat tctgcgcggg acgtccttct gctacgtccc ttcggccctc 480
aatccagcgg accttccttc ccgcggcctg ctgcccgtc tcgcgcctct tccgcgtctt 540
cgccttcgcc ctcagacgag tcggatctcc ctttgggccc cctccccgcc tggaattcga 600
gctcggtagc ggctcgacta gagtcggggc ggccggccgc ttcgag 646
```

<210> 30

<211> 819

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 30

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tctagaggat ctccgaccgc gggaatcccc gtcccccaac atgtccagat cgaaatcgct 120
tagcgcgtcg gcatgcgcca tcgccacgtc ctgcgcgtct aagtggagct cgtccccccag 180
gctgacatcg gtcggggggg cgcatctcgg acccggggaa tccccgtccc ccaacatgct 240
cagatcgaat tcgtctagcg cgtcggcatg cgccatcgcc acgtcctcgc cgtctaagtg 300
gagctcgtcc cccaggctga catcggtcgg gggggcggat cccccgggct gcaggaattc 360
cggcgataca gtcaactgtc tttgaccttt gttactactc tcttcgatg atgatgtcgc 420
acttattcta tgctgtctca atggttagagg catatcagtc tccactgaag ccaatctatc 480
tgtgacggca tctttattca cattatcttg taaaaaatat cctgttaaca atgcttttat 540
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aaatagctgt tccagtcttt cttagccttg ttccacttct gtcagatgtg ccctagtcag 660
cggagacctt ttggttttgg gagagtacgc acactccag ttgttcttca gacacttggc 720
gcacttcggt ttttctttgg agcacttgag ctttttaagt cggcaaatat cgcgtgcttg 780
ttcgatagaa gacagtagct tcacttttca ggaggctag 819
```

<210> 31

<211> 1352

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 31

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atggacaatg cccaatgcct gtcccatctt tcaggcatat ttttatttgt gggctttatg 120
tccctattaa gaaaaagact aagaacaaga tgctatcata ttttcttaac tggaatggta 180
gatgtttaaa catgatgact accaagcttg gctagaacat tgtgtcatct agtatacaaa 240
taggttcttg gagtacttta ctaggcatgg acaatgcccc atgcctgtcc cattcttcag 300
gcatattttt atttgtgggc tttatgtccc tattaagaaa aagactaaga acaagatgct 360
atcataagct ccaagcttat cgccagctgg gaatagagat aggaggggac ccagctggat 420
gcagtgggca gtgggggtca tagagtcaag agggtagaga atacaatggg gtcctagtag 480
catggtggag gtcagaaaaga gccctaaaag agagggtcaa ggtaggaggt tagtgaaggt 540
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```

ccacctccac cctctccagg acagggacat caggccacaa ttaatttctc tgcagttggt 600
gagtgggtcat ggtctctgga gtccccagca tccagagtgt ccctgggtcta gtgggtcccc 660
ctttctgagc cacagccact ttctccatca aatgaggcca gtaataccca tcccatagtg 720
atgctgtgag gatgagatga gcatctgtaa gtgctgaaga taatccctga cacatcccaa 780
gcattcagca gtgcaagcat acacttacac ggcaactccc agagccaggc atgtgctggt 840
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1020
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tttgggccac accagatagt ctaacggtgt gatttgtgct gaaggttttg agccacacta
1140
tatcagctag atttctagag cggccggccg caataaaata tctttatttt cattacatct
1200
gtgtgttggt tttttgtgtg aatcgatagt actaacatac gctctccatc aaaacaaaac
1260
gaaacaaaac aaactagcaa aataggctgt cccagtgca agtgcagggt ccagaacatt
1320
tctctatcga taggtaccga gctcatttag gt
1352

```

<210> 32
 <211> 496
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

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<400> 32
ggccgcccc cgtgcgcagc aggacgcagc gctgcctgaa actcgcgccg cgaggagagg 60
gcggggccgc ggaaaggaaa ggggggggct gggaggcccg gagggggctg ggccggggac 120
ccgggagggg tcgggacggg gcgggggtccg cgcgaggag gcggagctgg aaggtgaagg 180
ggcaggacgg gtgcccgggt ccccagtcct tccgccacgt ggggagcgcg gtcctgggcg 240
tctgtgccc cgaatccact gggagcccgg cctggccccg acagcgcagc tgcctcgggc 300
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ggagcggcag cgagggcccc agcggagaga ggtcgaatcg gcctaggctg tggggtaacc 420
cgaggaggg gcctctagat ataagggcga attccagcac actggcgggc gttactagtg 480
gatccgagct cggtac
496

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<210> 33
 <211> 857
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

```

<400> 33
ttatgtcaca ccacagaagt aaggttcctt caciaagatc ccaagctgtc gatcgacatt 60
tctagaggat ctcggaccgc ggaatcccc gtccccaac atgtccagat cgaaatcgtc 120
tagcgcgtcg gcatgcgcca tcgccacgtc ctgcgcgtct aagtggagct cgtccccag 180
gctgacatcg gtcggggggg cggatctcgg accgggggaa tccccgtccc ccaacatgtc 240
cagatcgaat tcgtctagcg cgtcggcatg cgccatcgcc acgtcctcgc cgtctaagtg 300
gagctcgtcc cccaggctga catcggtcgg gggggcggt cccccgggt gcaggaattc 360
cggcgataca gtcaactgtc ttgaccttt gttactactc tcttcgatg atgatgtcgc 420

```


acttatttcta	tgctgtotca	atgttagagg	catatcagtc	tccactgaag	ccaatctatc	480
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atcctgtaaa	gaatccattt	tcaaaatcat	gtcaaggtct	tctcgaggaa	aaatcagtag	600
aaatagctgt	tccagtcttt	ctagccttga	ttccacttct	gtcagatgtg	ccctagtcag	660
cggagacctt	ttggttttgg	gagagtagcg	acactcccag	ttgttcttca	gacacttggc	720
gcacttcggt	ttttctttgg	agcacttgag	ctttttaagt	cggcaaatat	cgcattgcttg	780
ttcgatagaa	gacagtagct	tcattctttca	ggaggctagg	gccgccagtg	tgatggatat	840
ctgcagaatt	cgccctt					857

<210> 34

<211> 8512

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Primer

<400> 34

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attgctttat	ttgtaaccat	tataagctgc	aataaacaag	ttaacaacaa	caattgcatt	180
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tacaaatgtg	gtatggctga	ttatgatcat	gaacagactg	tgaggactga	ggggcctgaa	300
atgagccttg	ggactgtgaa	tttaaaatac	acaaacaatt	agaatcagta	gtttaacaca	360
ttatacactt	aaaaatttta	tatttacctt	agagctttaa	atctctgtag	gtagtttgtc	420
caattatgtc	acaccacaga	agtaagggtc	cttcacaaag	atcccaagct	gtcgatcgac	480
atttctagag	gatctcggac	cgggggaatc	cccgtcccc	aacatgtcca	gacgaaatc	540
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 Primer

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 <211> 650
 <212> DNA
 <213> Artificial Sequence

<220>
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 taaatggccc gcctggctga ccgcccacac acccccgcac attgacgtca ataatacgt 180
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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